

# AUTOMATICALLY TURNING ON A PORTABLE DEVICE BY DETECTING A BATTERY CONDITION

## Abstract

A portable device includes a housing, a sensor, an operating processor, and a starting module. The housing is used for accommodating a detachable battery, and the detachable battery provides main power for operations of the portable device. The sensor that is installed inside the housing is used for detecting conditions of the detachable battery. The operating processor is used for controlling operations of the portable device, and the starting module is connected between the sensor and the operating processor. After the sensor detects that the detachable battery is correctly installed in the housing, the starting module outputs a turn-on signal to the operating processor for automatically turning on the portable device.